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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/688,579	10/17/2003	Alan K. Forsythe	GTDV120953	2274
36122 7590 05/24/2007 THE OLLILA LAW GROUP LLC 2060 BROADWAY SUITE 300 BOULDER, CO 80302			EXAMINER SANDY, ROBERT JOHN	
			ART UNIT 3677	PAPER NUMBER
			MAIL DATE 05/24/2007	DELIVERY MODE PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/688,579	Applicant(s) FORSYTHE, ALAN K.	
	Examiner Robert J. Sandy	Art Unit 3677	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11, 13-22, 24-32 and 34-36 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-4, 9, 13-15, 20, 24, 28 and 34-36 is/are rejected.
- 7) ☒ Claim(s) 5-8, 10, 11, 16-19, 21, 22, 25-27 and 29-32 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

This is a **non-final** Office action responsive to the reply filed on 17 April 2007.

- Claims 1, 5, 8-11, 13, 16, 18-22, 24, 30 and 32 were amended.
- Claims 12, 23, and 33 have been canceled.
- Claims 34-36 were added.
- Claims 1-11, 13-22, 24-32, and 34-36 are pending.

Specification

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The specification provides no antecedent basis for "the first engagement surface is inclined relative to the first interference surface by a selected separation angle, wherein the separation angle is selected so that, as the gripping device is rotated relative to the actuation member, **the amount of friction between the first engagement surface and the first interface surface varies**" as presented in new claims 34, 35 and 36. The claimed subject matter pertaining to each of claims 34, 35 and 36, appear as an attempt to find support in the paragraphs found on page 8, lines 4-28. It is suggested for applicant to amend the claims with text consistent with the originally described text of the specification. It appears that applicant's use of the claimed term "friction" would be believed to correspond the description of "resistance to rotation". However, since the term "friction" has not been supported in the originally filed specification, The use of the term "friction" is not fully understood. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 34-36 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In each of claims 34-36, the subject matter pertaining to the "friction between the

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first engagement surface and the first interference surface varies ” is indefinite since this subject matter is not fully supported in the written specification. Therefore, since the term “friction” has not been supported in the originally filed specification, The use of the term “friction” is not fully understood.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 9, 13-15, 20, 24 and 28, are rejected under 35 U.S.C. 102(b) as being anticipated by Shook (U. S. Patent No. 1,333,998. Shook (998) discloses a knob attachment assembly comprising: a control device housing (sleeve 1); an actuation member (ratchet 4) coupled to the control device housing, the actuation member including a first engagement surface (surface of beveled teeth 6 on clutch member 5 of ratchet 4) and a central axis (central axis along crank portion C); and a gripping device (other clutch member 5') including a first interference surface (surface of beveled teeth 7), the gripping device being selectively couplable to the actuation member and rotatable about the central axis of the actuation member between a locked position (i.e., when clutch member 5' is shifted toward and engaged to clutch member 5), wherein by interference of the first engagement surface with the first interference surface couples the gripping device to the actuation member, and an unlocked position (unlocked position shown in Fig. 1), wherein the gripping device is removable from the actuation member (when the gripping device 5' is removed from the actuation member 5 to the unlocked position shown in Fig. 1);

(concerning claim 2) the gripping device includes a key (one tooth 7) and the actuation member includes a first keyway and a second keyway (first and second keyways defined by adjacent recesses respectively between three teeth 6), wherein the gripping device may be selectively coupled upon the actuation member in either a first orientation or a second orientation (first and second orientations exist since the crank having clutch member 5' may be selectively

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rotated and engaged with the mating clutch member 5) by selectively interfacing the key with the first keyway or the second keyway;

(concerning claims 3 and 14) the first engagement surface is inclined relative to the first interference surface by a selected separation angle (angle is shown to be a zero angle);

(concerning claims 4 and 15) the selected separation angle is between about 1 degree (zero is "about" one degree) and about 10 degrees;

(concerning claims 9 and 20) and further comprising; a second engagement surface (engagement surface of another adjacent tooth 6 on clutch member 5) disposed on the actuation member; a second interference surface (an interference surface of another adjacent tooth 7 on clutch member 5') disposed on the gripping device; and (c) wherein when the gripping device is in the locked position, the gripping device is additionally coupled to the actuation member by interference of the second engagement surface with the second interference surface; and

(concerning claim 13) the actuation member coupled to the control device, the actuation member including a central axis and having a first projection (tooth 6) with a first engagement surface (engaging surface of tooth 6); and the gripping device having a first protrusion (tooth 7) with a first interference surface (engaging surface of tooth 7), wherein the gripping device is adapted to be selectively keyed upon the actuation member in a first orientation or a second orientation (first and second orientations exist since the crank having clutch member 5' may be selectively rotated and engaged with the mating clutch member 5) by selective interaction of the first projection with the first protrusion, and wherein the gripping device is selectively couplable to the actuation member and is rotatable about the central axis of the actuation member between the locked position, wherein interference of the first engagement surface with the first interference surface couples the gripping device to the actuation member, and the unlocked position, wherein the gripping device is selectively removable from the actuation member.

Concerning claim 24, Shook (998) discloses a knob attachment assembly comprising: an actuation member (5) having a central axis, the actuation member including a limit stop (surface of one of the teeth 6) and a first projection (one of teeth 6); a gripping device (5') having a first protrusion (tooth 7); a locking member (engaging surface portion of tooth 7) coupled to either the actuation member or the gripping device; and wherein the gripping device is adapted to be selectively keyed upon the actuation member in either a first orientation or a second orientation

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(first and second orientations exist since the crank having clutch member 5' may be selectively rotated and engaged with the mating clutch member 5) by selectively interfacing of the first projection with the first protrusion, and wherein the gripping device is selectively couplable to the actuation member and is rotatable about the central axis of the actuation member between a locked position (i.e., when clutch member 5' is shifted toward and engaged to clutch member 5), wherein engagement of the first protrusion against the limit stop and engagement of the locking member against the first projection or the first protrusion couple the gripping device to the actuation member, and an unlocked position (position shown in Fig. 1), wherein the gripping device is selectively removable from the actuation member (when the gripping device 5' is removed from the actuation member 5 to the unlocked position shown in Fig. 1); and

(concerning claim 28) the locking member is disposed upon the gripping device or the actuation member so as to be compressed against the first projection or the first protrusion as the gripping device is transitioned from the unlocked position to the locked position (i.e., the locking member is disposed upon the engaging surface of tooth 6 when clutch member 5" is in engagement with clutch member 5).

Allowable Subject Matter

Claims 34-36 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Claims 5-8, 10, 11, 16-19, 21, 22, 25-27, and 29-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The allowability of claims 24-32 indicated in the prior Office action, are withdrawn in view of the newly discovered reference to Shook ('998), as applied in the rejections set forth in this Office action.

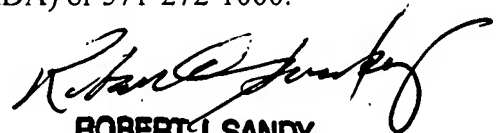
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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. Sandy whose telephone number is 571-272-7073. The examiner can normally be reached on M-F (7:30-4:00).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, J.J. Swann can be reached on 571-272-7075. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



ROBERT J. SANDY
PRIMARY EXAMINER

Robert J. Sandy
Primary Examiner
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